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Coursera - Creating an AWS EC2 Autoscaling Group using Load Balancer

Generated on December 20, 2023

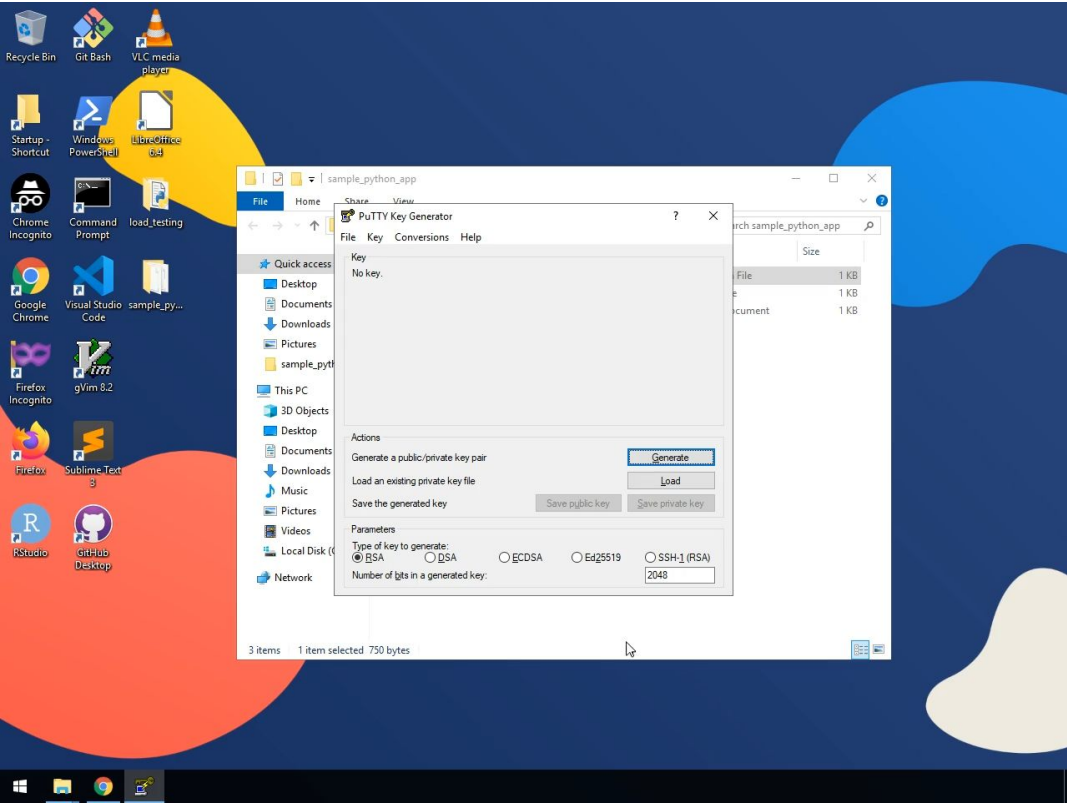
Summary

Notes	Screenshots	Bookmarks
24	29	0

Task 2:

Deploying A Sample Application On Your EC2 Server And Creating An AMI

0:02



▶ 2:09

Connecting with Ec2 using PUTTY

▶ 2:09

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes sections for EC2 Dashboard, Events, Tags, Limits, Instances, Images, Elastic Block Store, and Network & Security. The main content area shows a list of EC2 instances with a search filter applied: 'search : i-0b299b8e2b05a51a9'. A single instance is listed with the ID 'i-0b299b8e2b05a51a9' and the name 'ec2-18-222-223-us-east-2.compute.amazonaws.com'. The instance's state is 'running', and its type is 't2.micro'. A 'Connect' button is visible above the instance list. Below the instance list, a detailed view for the selected instance is shown, including tabs for Description, Status Checks, Monitoring, and Tags. The Description tab is active, displaying the instance's ID, state, type, and finding. A PuTTY terminal window is open in the foreground, showing a command prompt with the text 'login as: ubuntu' and a green cursor. The terminal window's title bar reads 'ec2-18-222-223-us-east-2.compute.amazonaws.com - PuTTY'. The bottom of the screenshot shows a Windows taskbar with icons for the Start menu, File Explorer, Google Chrome, and the PuTTY application.

▶ 4:43

Instances | EC2 Management Console

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#instances:search=i-0b299b8e2b05a51a9:sort=instanceid

Services Resource Groups

My Account Ohio Support

New EC2 Experience

Launch Instance Connect Actions

EC2 Dashboard Events Tags Limits

Instances

Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes Snapshots Lifecycle Manager

Network & Security

Security Groups

Feedback English (US)

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autoscaling_key.pem Show all

ubuntu@ip-172-31-22-139:~\$

```
System information as of Fri Sep 4 18:20:26 UTC 2020
System load: 0.0 Processes: 91
Usage of /: 14.4% of 7.69GB Users logged in: 0
Memory usage: 17% IP address for eth0: 172.31.22.139
Swap usage: 0%

0 packages can be updated.
0 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-22-139:~$
```

Instance: i-0b299b8e2b05a51a9 Public DNS: ec2-18-222-223-223.us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-0b299b8e2b05a51a9	Public DNS (IPv4)	ec2-18-222-223-223.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	18.222.223.223
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer	Elastic IPs	

4:47

we are logged in now

4:49

Instances | EC2 Management Console

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#instances:search=i-0b299b8e2b05a51a9:sort=instanceid

Services Resource Groups

My Account Ohio Support

New EC2 Experience

Launch Instance Connect Actions

EC2 Dashboard Events Tags

Best match

FileZilla Desktop app

filezilla Show all

ubuntu@ip-172-31-22-139:~\$

```
System information as of Fri Sep 4 18:20:26 UTC 2020
System load: 0.0 Processes: 91
Usage of /: 14.4% of 7.69GB Users logged in: 0
Memory usage: 17% IP address for eth0: 172.31.22.139
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To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-22-139:~$
```

Instance: i-0b299b8e2b05a51a9 Public DNS: ec2-18-222-223-223.us-east-2.compute.amazonaws.com

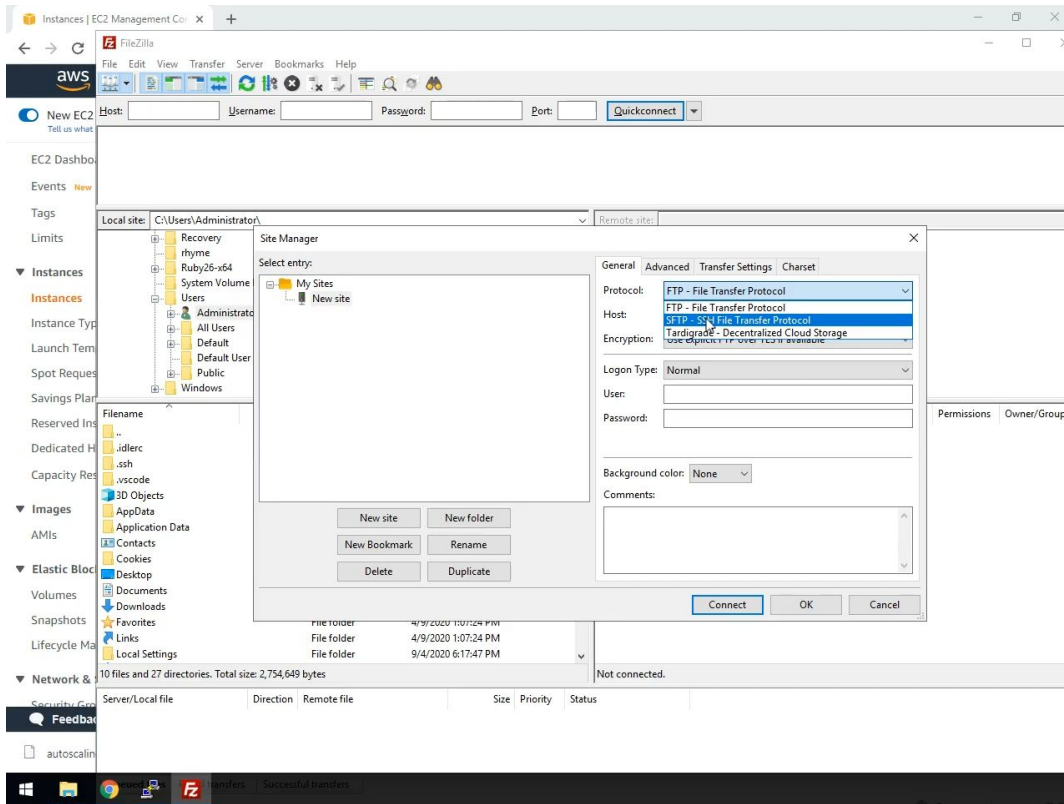
Description Status Checks Monitoring Tags

Instance ID	i-0b299b8e2b05a51a9	Public DNS (IPv4)	ec2-18-222-223-223.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	18.222.223.223
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer	Elastic IPs	

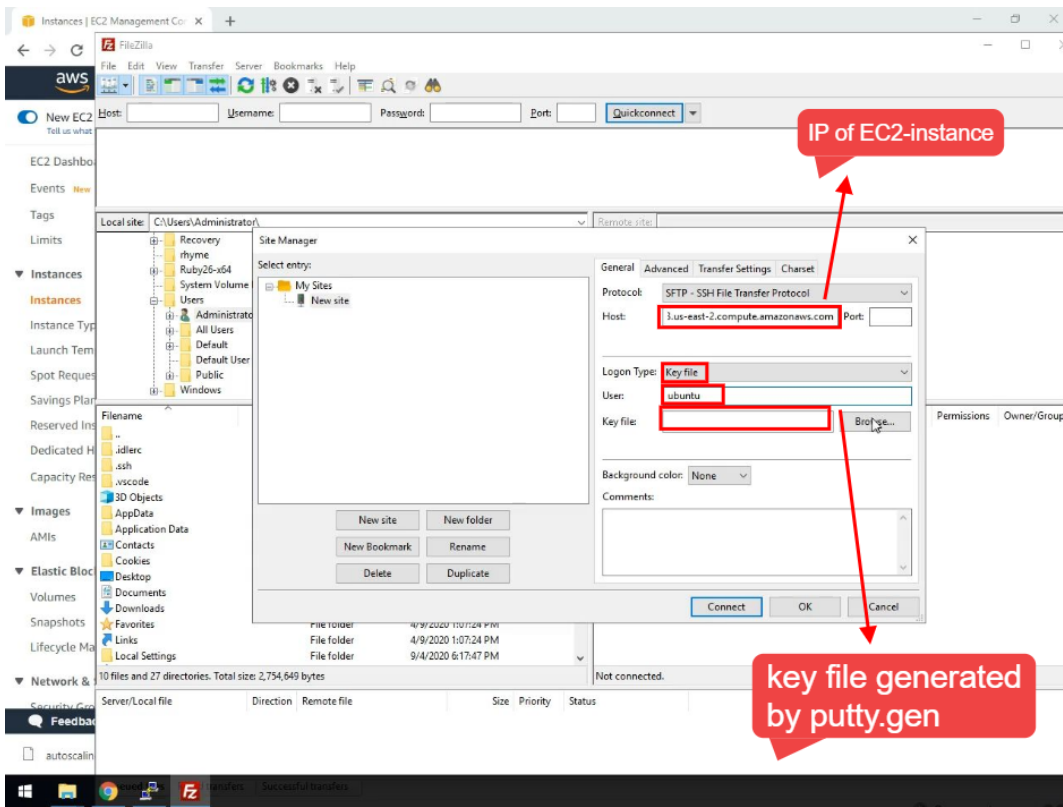
▶ 5:08

filezilla provide user-interface to transfer files from computer to remote instance

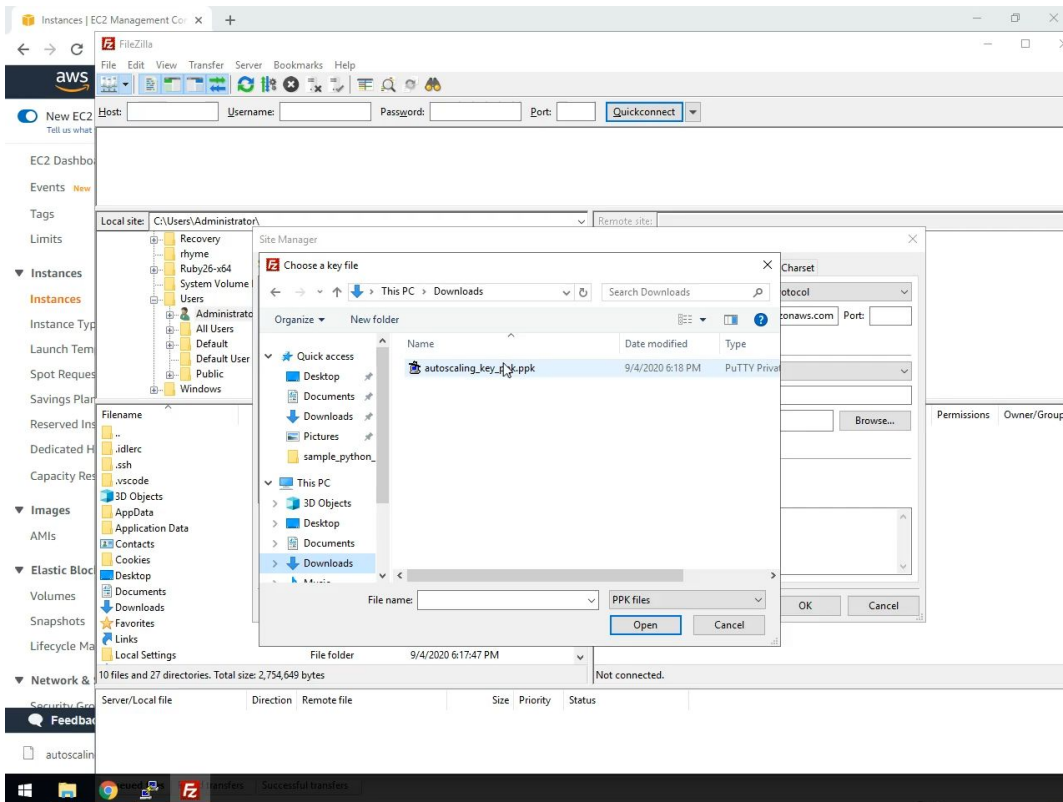
▶ 5:44



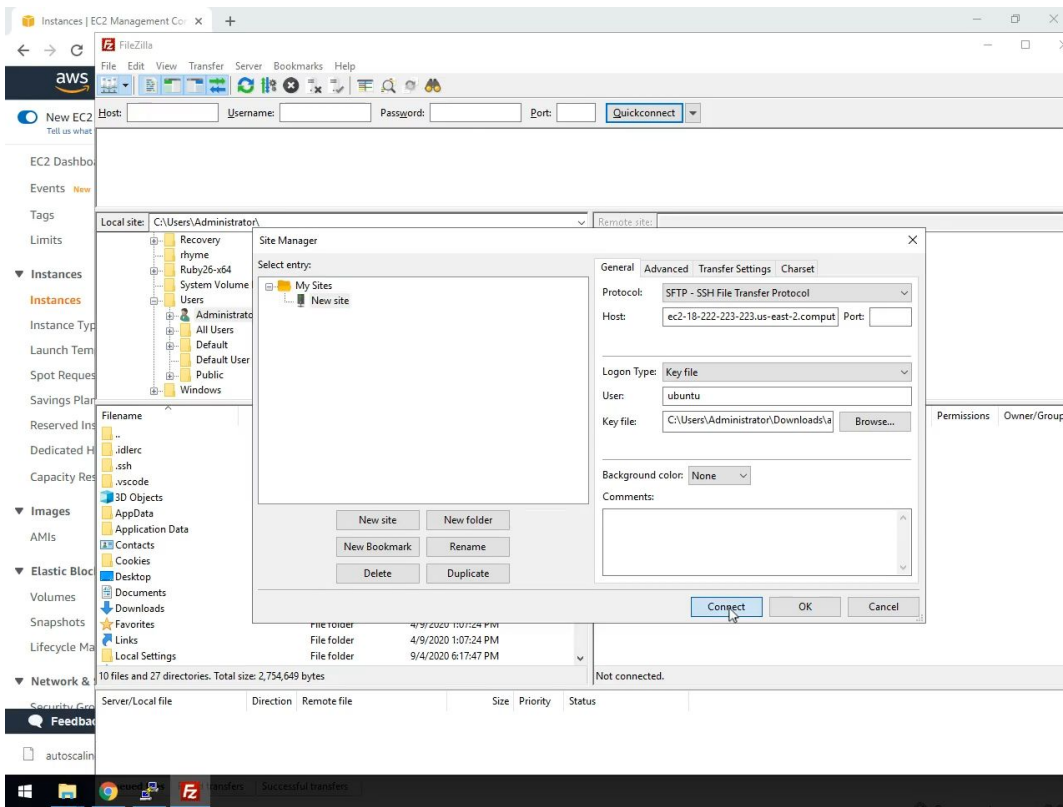
▶ 6:02



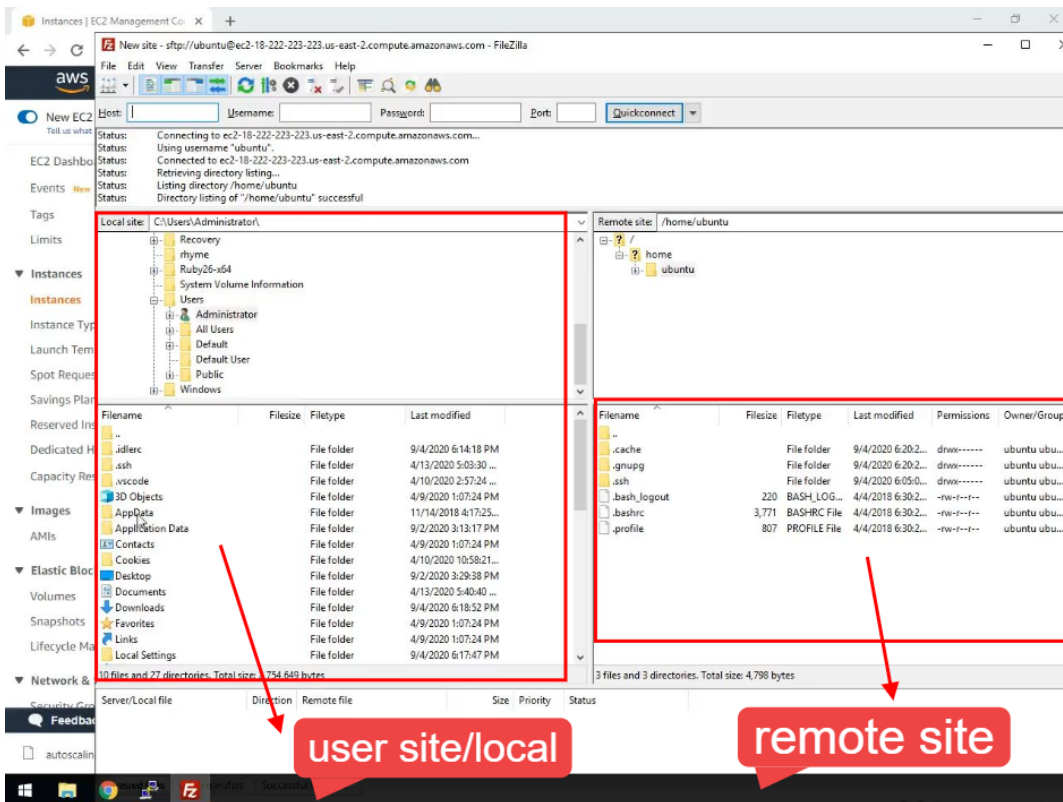
6:13



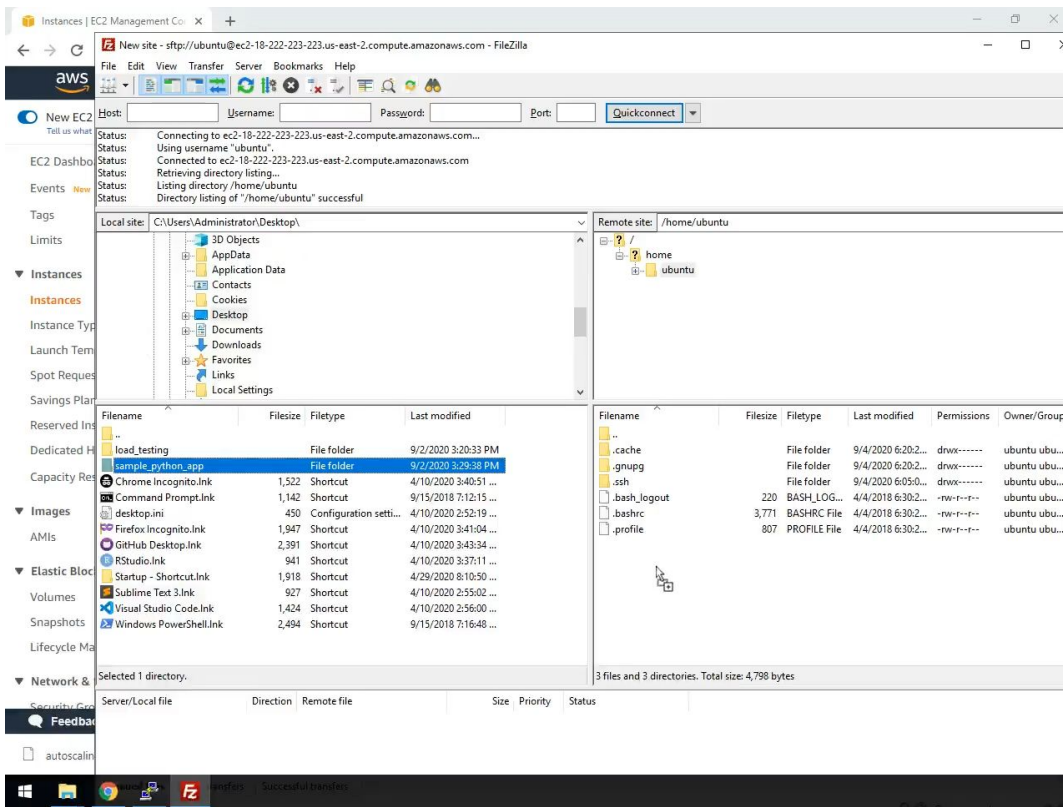
6:22



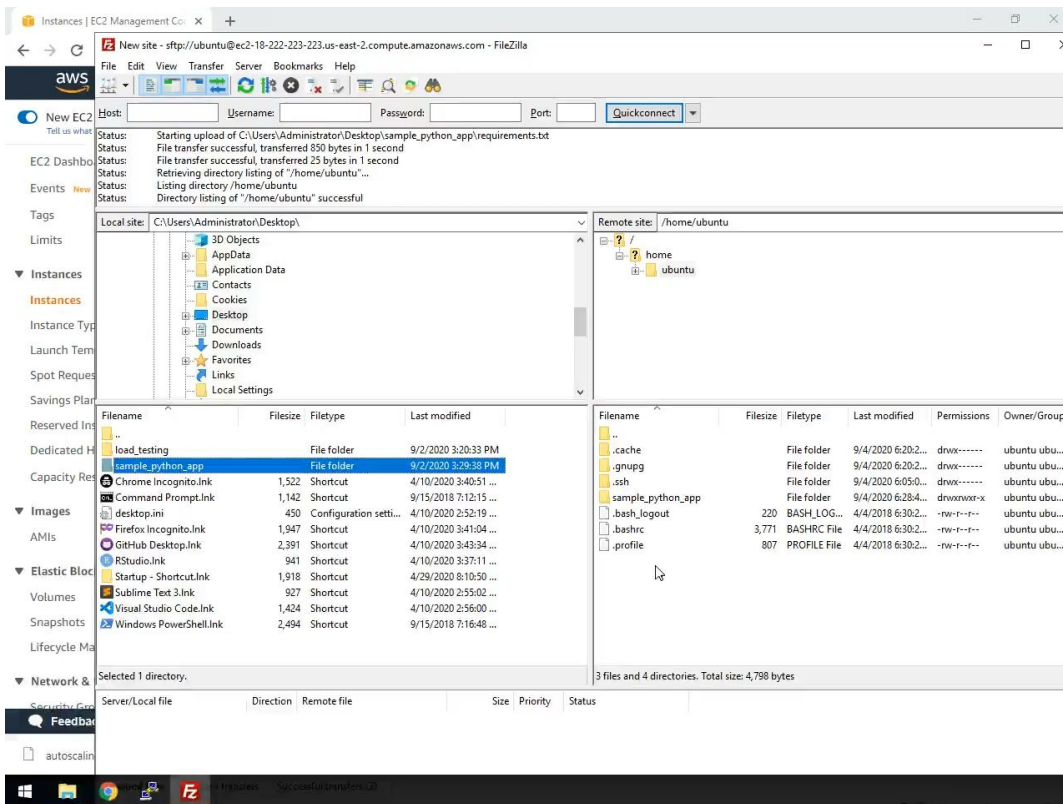
6:41



6:50



7:06



7:11

drag and drop the file !!!

7:12

now go to the connected putty

and update the instance

`sudo apt update -y`

7:34

check if python3 is install or not?

7:46

The screenshot shows the AWS Management Console interface. On the left, the 'Instances' section is expanded, showing a list of instances. The main area displays the details of an instance named 'ubuntu@ip-172-31-22-139'. The 'Status' tab is selected, showing the instance is in a 'Running' state. A terminal window is open, displaying the output of the command `sudo apt-get install python3-pip`. The output shows the package being installed and the command being executed. The terminal window also shows the output of `python3` command, which returns `Python 3.6.9 (default, Jul 17 2020, 12:50:27) [GCC 8.4.0] on linux`. The terminal window also shows the output of `python3 --help`, which displays the help text for the python3 command.

Filename	Filesize	Filetype	Last modified	Permissions	Owner/Group
..					
load_testing					
sample_python					
chrome_incognito					
command_prompt					
desktop.ini					
firefox_incognito					
github_desktop					
rsstudio					
startup - shortcut					
sublime_text_3					
visual_studio_code					
windows_powershell					

8:10

`sudo apt-get install python3-pip`

install the python packages

8:10

now do

Is and you will see the application is moved successfully

▶ 9:10

```
ubuntu@ip-172-31-22-139: ~/sample_python_app
Setting up libasan0:amd64 (8.4.0-1ubuntu1-18.04) ...
Setting up gcc-7-base:amd64 (7.5.0-3ubuntu1-18.04) ...
Setting up binutils-common:amd64 (2.30-2ubuntu1-18.04.4) ...
Setting up libfile-fcntllock-perl (0.22-3build2) ...
Setting up libmpx2:amd64 (8.4.0-1ubuntu1-18.04) ...
Setting up libfakeroot:amd64 (1.22-2ubuntu1) ...
Setting up libalgorithm-diff-perl (1.19.03-1) ...
Setting up libmpc3:amd64 (1.1.0-1) ...
Setting up libo-dev-bin (2.27-3ubuntu1.2) ...
Setting up python3-lib2to3 (3.6.9-1-18.04) ...
Setting up python3-secretstorage (2.3.1-2) ...
Setting up manpages-dev (4.15-1) ...
Setting up libo-dev:amd64 (2.27-3ubuntu1.2) ...
Setting up python3-distutils (3.6.9-1-18.04) ...
Setting up libitm1:amd64 (8.4.0-1ubuntu1-18.04) ...
Setting up libisl19:amd64 (0.19-1) ...
Setting up libasan4:amd64 (7.5.0-3ubuntu1-18.04) ...
Setting up python3-keyring (10.6.0-1) ...
Setting up libbinutils:amd64 (2.30-2ubuntu1-18.04.4) ...
Setting up libcilkrts0:amd64 (7.5.0-3ubuntu1-18.04) ...
Setting up libubsan0:amd64 (7.5.0-3ubuntu1-18.04) ...
Setting up fakeroot (1.22-2ubuntu1) ...
update-alternatives: using /usr/bin/fakeroot-sysv to provide /usr/bin/fakeroot (fakeroot) in auto mode
Setting up libgcc-7-dev:amd64 (7.5.0-3ubuntu1-18.04) ...
Setting up cpp-7 (7.5.0-3ubuntu1-18.04) ...
Setting up libstdc++7-dev:amd64 (7.5.0-3ubuntu1-18.04) ...
Setting up libalgorithm-merge-perl (0.09-3) ...
Setting up libalgorithm-diff-xs-perl (0.04-5) ...
Setting up python3-pip (9.0.1-2.3-ubuntu18.04.2) ...
Setting up libexpat1-dev:amd64 (2.2.5-3ubuntu0.2) ...
Setting up python3-requests (3.9.0.1-2) ...
Setting up dh-python (3.20180328ubuntu2) ...
Setting up binutils-x86_64-linux-gnu (2.30-2ubuntu1-18.04.4) ...
Setting up cpp (4:7.4.0-1ubuntu2.3) ...
Setting up libpython3.6-dev:amd64 (3.6.9-1-18.04ubuntu1.1) ...
Setting up binutils (2.30-2ubuntu1-18.04.4) ...
Setting up python3.6-dev (3.6.9-1-18.04ubuntu1.1) ...
Setting up libpython3-dev:amd64 (3.6.7-1-18.04) ...
Setting up gcc-7 (7.5.0-3ubuntu1-18.04) ...
Setting up g++-7 (7.5.0-3ubuntu1-18.04) ...
Setting up python3-dev (3.6.7-1-18.04) ...
Setting up gcc (4:7.4.0-1ubuntu2.3) ...
Setting up dpkg-dev (1.19.0-3ubuntu2.3) ...
Setting up g++ (4:7.4.0-1ubuntu2.3) ...
update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto mode
Setting up build-essential (12.4ubuntu1) ...
Processing triggers for libc-bin (2.27-3ubuntu1.2) ...
ubuntu@ip-172-31-22-139:~$ ls
sample_python_app
ubuntu@ip-172-31-22-139:~$ cd sample_python_app/
ubuntu@ip-172-31-22-139:~/sample_python_app$ ls
app.py  model.pkl  requirements.txt
ubuntu@ip-172-31-22-139:~/sample_python_app$
```

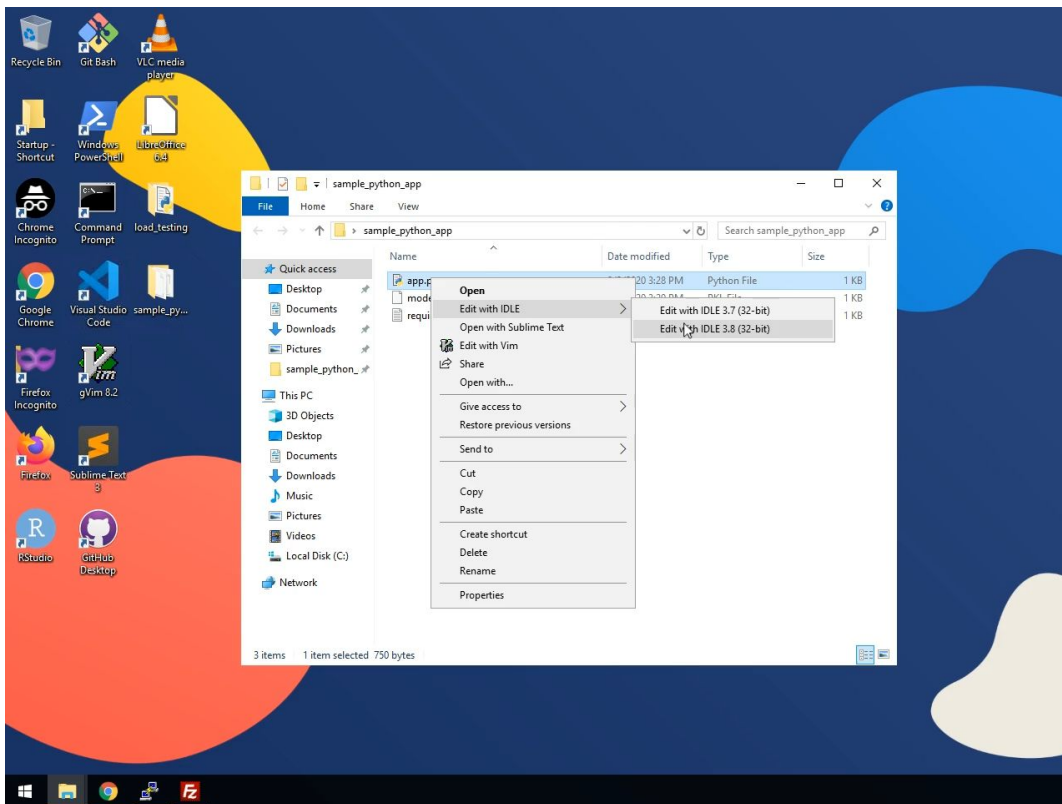
▶ 9:18

use pip to install all the dependencies from the requirements.txt file

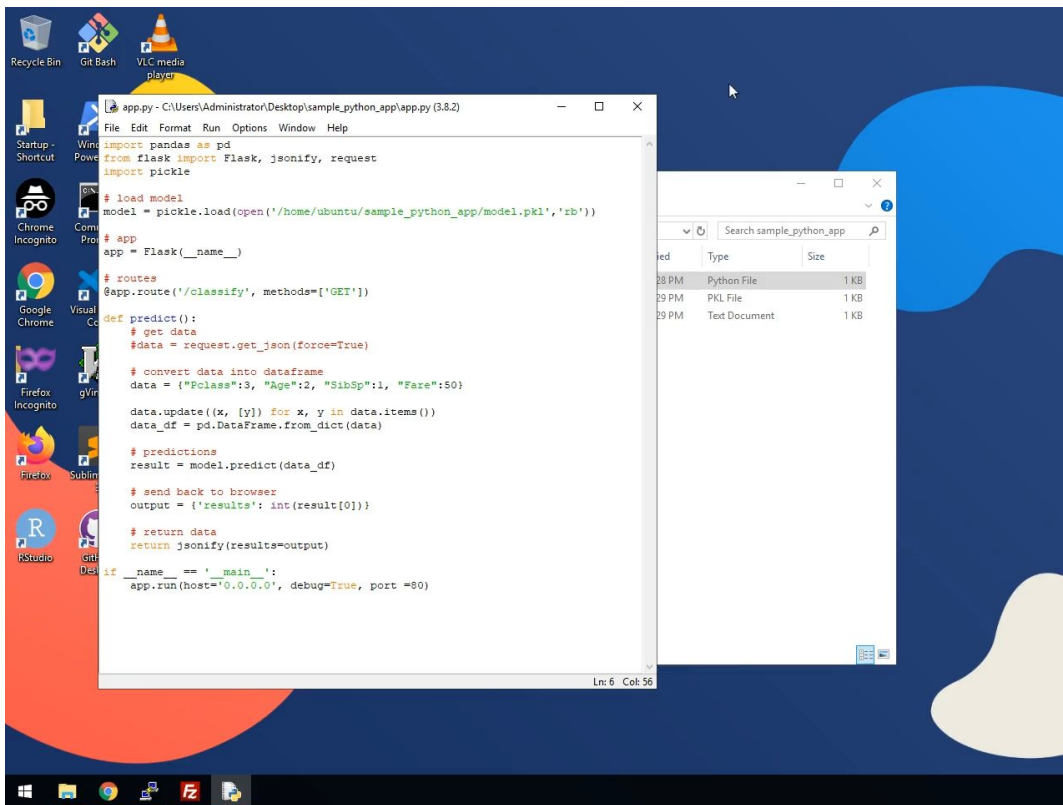
▶ 9:41

```
ubuntu@ip-172-31-22-139: ~/sample_python_app
Setting up g++ (4:7.4.0-1ubuntu3) ...
update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto mode
Setting up build-essential (12.4ubuntu1) ...
Processing triggers for man-db (2.8.3-2ubuntu1) ...
Processing triggers for libc-bin (2.27-3ubuntu2) ...
ubuntu@ip-172-31-22-139:~$ ls
sample_python_app
ubuntu@ip-172-31-22-139:~$ cd sample_python_app/
ubuntu@ip-172-31-22-139:~/sample_python_app$ ls
app.py  model.pkl  requirements.txt
ubuntu@ip-172-31-22-139:~/sample_python_app$ pip3 install -r requirements.txt
Collecting pandas (from -r requirements.txt (line 1))
  Downloading https://files.pythonhosted.org/packages/al/c6/9ac4ae4c24c787a1738e5fb34dd987ada6533de5905a041aa6d5bea4553/pandas-1.1.1-cp36-cp36m-manylinux1_x86_64.whl (10.5MB)
100% |#####| 10.5MB 130KB/s
Collecting flask (from -r requirements.txt (line 2))
  Downloading https://files.pythonhosted.org/packages/22/25/2a03252dfb3ebf377f40fba67841b7083260bf9bde737b0c6952df63f/Flask-1.1.2-py2.py3-none-any.whl (95kB)
100% |#####| 102kB 11.3MB/s
Collecting scikit-learn (from -r requirements.txt (line 3))
  Downloading https://files.pythonhosted.org/packages/5c/al/273def97637a7fb010512bb68901c31cfdffca8080bc63b42b26e3cc55b3/scikit_learn-0.23.2-cp36-cp36m-manylinux1_x86_64.whl (6.8MB)
100% |#####| 6.8MB 193KB/s
Collecting numpy>=1.18.4 (from pandas->-r requirements.txt (line 1))
  Downloading https://files.pythonhosted.org/packages/22/e7/4b2bddb99f5f631d9c1de259897c2b7d65dcfcolle0a6fd17a7f62923500/numpy-1.19.1-cp36-cp36m-manylinux1_x86_64.whl (13.4MB)
100% |#####| 13.4MB 101KB/s
Collecting pytz>=2017.2 (from pandas->-r requirements.txt (line 1))
  Downloading https://files.pythonhosted.org/packages/4f/as/879454d4969e2fad93e59d7d4efda580b783c745fd2ec2a3adf07b0808d/pytz-2020.1-py2.py3-none-any.whl (51kB)
100% |#####| 512kB 2.7MB/s
Collecting python-dateutil>=2.7.3 (from pandas->-r requirements.txt (line 1))
  Downloading https://files.pythonhosted.org/packages/d4/70/d60450c3dd48ef97586924207ae9907090da0b306af2bce5d134d78615cb/python_dateutil-2.8.1-py2.py3-none-any.whl (227kB)
100% |#####| 235kB 5.6MB/s
Collecting itsdangerous>=0.24 (from flask->-r requirements.txt (line 2))
  Downloading https://files.pythonhosted.org/packages/76/ae/44b03b253d6fada317f32c24d100b3b35c2239807046a40c953c7b99fa49e/itsdangerous-1.1.0-py2.py3-none-any.whl
100% |#####| 307kB 4.2MB/s
Collecting click>=5.1 (from flask->-r requirements.txt (line 2))
  Downloading https://files.pythonhosted.org/packages/d2/3d/fa76db83bf75c4f9d338c2fd15cd3d3fdd7ad23a9b5e57eb6c5dc26b430e/click-7.1.2-py2.py3-none-any.whl (82kB)
100% |#####| 82kB 10.4MB/s
Collecting Jinja2>=2.10.1 (from flask->-r requirements.txt (line 2))
  Downloading https://files.pythonhosted.org/packages/30/9e/f663a3aa6a08d838042ae1a2c5659828bb5b41aa3afe20a20fd92b121/Jinja2-2.11.2-py2.py3-none-any.whl (125kB)
100% |#####| 133kB 8.6MB/s
Collecting scipy>=0.19.1 (from scikit-learn->-r requirements.txt (line 3))
  Downloading https://files.pythonhosted.org/packages/2b/a5/f4c66eb529bb252d50c83dbf2909c6802e2f857580f22571ed8556f62d9/scipy-1.5.2-cp36-cp36m-manylinux1_x86_64.whl (25.8MB)
95% |#####| 25.8MB 36.0MB/s eta 0:00:01
```

9:51



10:42



▶ 10:54

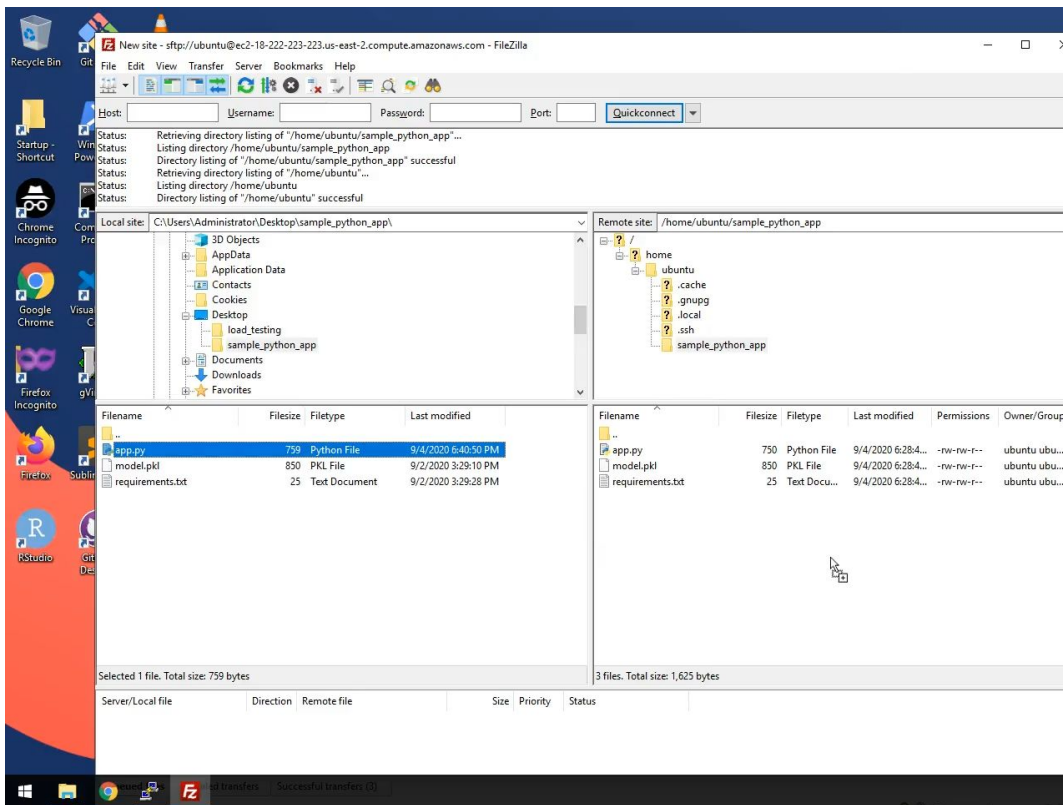
change the name from test to sample_python_app

▶ 10:54

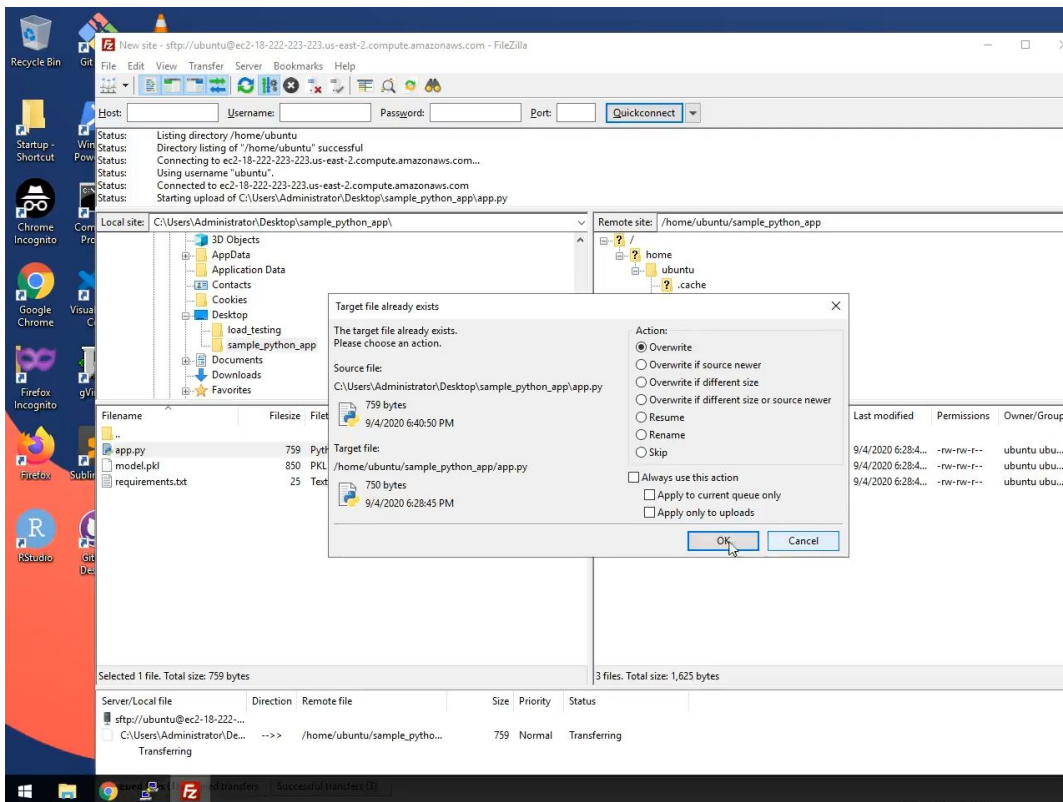
now transfer the edit file to the host-server

...

▶ 11:04



11:10



11:14

replaced the app.py file in the host-server from local

▶ 11:20

use command

`sudo python3 app.py`

this will run our app on port 80

>>let's check it

▶ 11:43

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user account information. The left sidebar contains a navigation menu with categories like 'EC2 Dashboard', 'Instances', 'Images', 'Elastic Block Store', and 'Network & Security'. The main content area displays a table of EC2 instances. A single instance is listed with the ID 'i-0b299b8e2b05a51a9', type 't2.micro', and state 'running'. Below the table, a detailed view of the selected instance is shown, including its Public DNS address: 'ec2-18-222-223-223.us-east-2.compute.amazonaws.com'. The IPv4 Public IP is highlighted as '18 222 223 223', and a 'Copied' tooltip is visible. The bottom of the screen shows a Windows taskbar with various application icons and a system tray.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	i-0b299b8e2b05a51a9	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-222-223-223.us-east-2.compute.amazonaws.com

Instance: i-0b299b8e2b05a51a9 Public DNS: ec2-18-222-223-223.us-east-2.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID	i-0b299b8e2b05a51a9	Public DNS (IPv4)	ec2-18-222-223-223.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	18 222 223 223
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer	Elastic IPs	-

▶ 11:49



A screenshot of a web browser window. The address bar shows the URL `18.222.223.223/classify`. The page content displays a JSON object: `{ "results": { "results": 1 } }`. The browser's security warning indicates "Not secure".



▶ 12:08

so our application is up and running

▶ 12:08

we want that if something happens like rebooting the system ,
so our application donot disturb and still running and available

so we will use chronetab and in chronetab our app will still run
in background if something unexpected happens

so our python-script or application is always running even if we
are not connected

▶ 12:48


```
ubuntu@ip-172-31-22-139: ~/sample_python_app$ sudo python3 app.py
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/utils/deprecation.py:143: FutureWarning: The sklearn.linear_model.logistic module is deprecated in version 0.22 and will be removed in version 0.24. The corresponding classes / functions should instead be imported from sklearn.linear_model. Anything that cannot be imported from sklearn.linear_model is now part of the private API.
  warnings.warn(message, FutureWarning)
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/base.py:334: UserWarning: Trying to unpickle estimator LogisticRegression from version 0.21.2 when using version 0.23.2. This might lead to breaking code or invalid results. Use at your own risk.
  UserWarning)
* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://0.0.0.0:80/ (Press CTRL+C to quit)
* Restarting with stat
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/utils/deprecation.py:143: FutureWarning: The sklearn.linear_model.logistic module is deprecated in version 0.22 and will be removed in version 0.24. The corresponding classes / functions should instead be imported from sklearn.linear_model. Anything that cannot be imported from sklearn.linear_model is now part of the private API.
  warnings.warn(message, FutureWarning)
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/base.py:334: UserWarning: Trying to unpickle estimator LogisticRegression from version 0.21.2 when using version 0.23.2. This might lead to breaking code or invalid results. Use at your own risk.
  UserWarning)
* Debugger is active!
* Debugger PIN: 989-435-188
ubuntu@ip-172-31-22-139:~/sample_python_app$
```

▶ 13:31

stop the server here!

▶ 13:32

opening cronetab

▶ 13:36

```
ubuntu@ip-172-31-22-139: ~/sample_python_app
ubuntu@ip-172-31-22-139:~/sample_python_app$ sudo python3 app.py
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/utils/deprecation.py:143: FutureWarning: The sklearn.linear_model.logistic module is deprecated in v
ersion 0.22 and will be removed in version 0.24. The corresponding classes / functions should instead be imported from sklearn.linear_model. Anything that ca
nnot be imported from sklearn.linear_model is now part of the private API.
  warnings.warn(message, FutureWarning)
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/base.py:334: UserWarning: Trying to unpickle estimator LogisticRegression from version 0.21.2 when us
ing version 0.23.2. This might lead to breaking code or invalid results. Use at your own risk.
  UserWarning)
* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://0.0.0.0:80/ (Press CTRL+C to quit)
* Restarting with stat
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/utils/deprecation.py:143: FutureWarning: The sklearn.linear_model.logistic module is deprecated in v
ersion 0.22 and will be removed in version 0.24. The corresponding classes / functions should instead be imported from sklearn.linear_model. Anything that ca
nnot be imported from sklearn.linear_model is now part of the private API.
  warnings.warn(message, FutureWarning)
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/base.py:334: UserWarning: Trying to unpickle estimator LogisticRegression from version 0.21.2 when us
ing version 0.23.2. This might lead to breaking code or invalid results. Use at your own risk.
  UserWarning)
* Debugger is active!
* Debugger PIN: 989-485-198
ubuntu@ip-172-31-22-139:~/sample_python_app$ ^C
ubuntu@ip-172-31-22-139:~/sample_python_app$ crontab -e
```

▶ 13:36

```
ubuntu@ip-172-31-22-139: ~/sample_python_app
# This file is to be executed when it is run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task.
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab lines (including errors) is sent through
# mail to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 5 * * * 1 tar -zcf /var/backups/home.tar /home/
#
# For more information see the manual pages of cron(8) and crontab(1).
#
# m h dom dow dow command
#reboot sudo python3 /home/ubuntu/sample_python_app/app.py
```

▶ 14:12

save it

▶ 14:13

```
ubuntu@ip-172-31-22-139: ~/sample_python_app
ubuntu@ip-172-31-22-139:~/sample_python_app$ sudo python3 app.py
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/utils/deprecation.py:143: FutureWarning: The sklearn.linear_model.logistic module is deprecated in version 0.22 and will be removed in version 0.24. The corresponding classes / functions should instead be imported from sklearn.linear_model. Anything that cannot be imported from sklearn.linear_model is now part of the private API.
  warnings.warn(message, FutureWarning)
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/base.py:334: UserWarning: Trying to unpickle estimator LogisticRegression from version 0.21.2 when using version 0.23.2. This might lead to breaking code or invalid results. Use at your own risk.
  UserWarning)
* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://0.0.0.0:80/ (Press CTRL+C to quit)
* Restarting with stat
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/utils/deprecation.py:143: FutureWarning: The sklearn.linear_model.logistic module is deprecated in version 0.22 and will be removed in version 0.24. The corresponding classes / functions should instead be imported from sklearn.linear_model. Anything that cannot be imported from sklearn.linear_model is now part of the private API.
  warnings.warn(message, FutureWarning)
/home/ubuntu/.local/lib/python3.6/site-packages/sklearn/base.py:334: UserWarning: Trying to unpickle estimator LogisticRegression from version 0.21.2 when using version 0.23.2. This might lead to breaking code or invalid results. Use at your own risk.
  UserWarning)
* Debugger is active!
* Debugger PIN: 989-435-199
^Cubuntu@ip-172-31-22-139:~/sample_python_app$ ^C
ubuntu@ip-172-31-22-139:~/sample_python_app$ crontab -e
crontab: installing new crontab
ubuntu@ip-172-31-22-139:~/sample_python_app$ crontab -e
crontab: installing new crontab
ubuntu@ip-172-31-22-139:~/sample_python_app$ sudo reboot
```

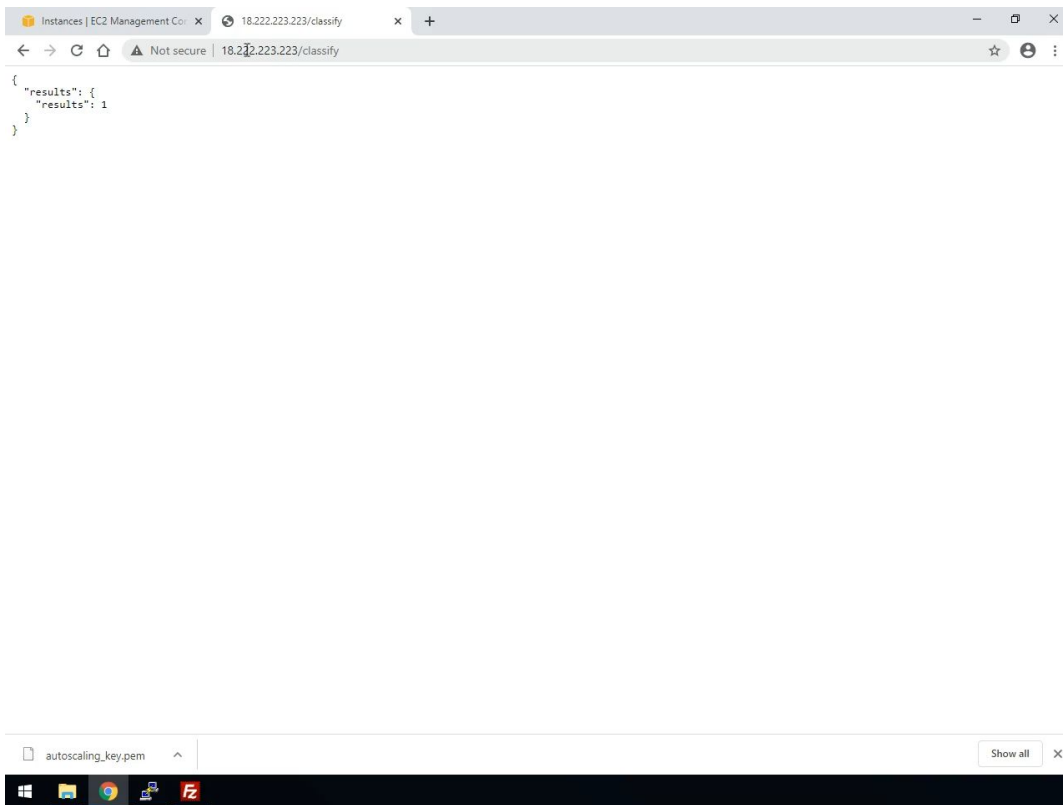


▶ 14:55

rebooting the server

sudo reboot

▶ 14:59



▶ 15:44

we we will wait for rebooting and then check the web-app that
the app is still running or not ?

hit refresh and see !

>>> yeah ! the app is running successfully

▶ 15:44

now we will create an AMI

▶ 15:57

this AMI is just like docker image

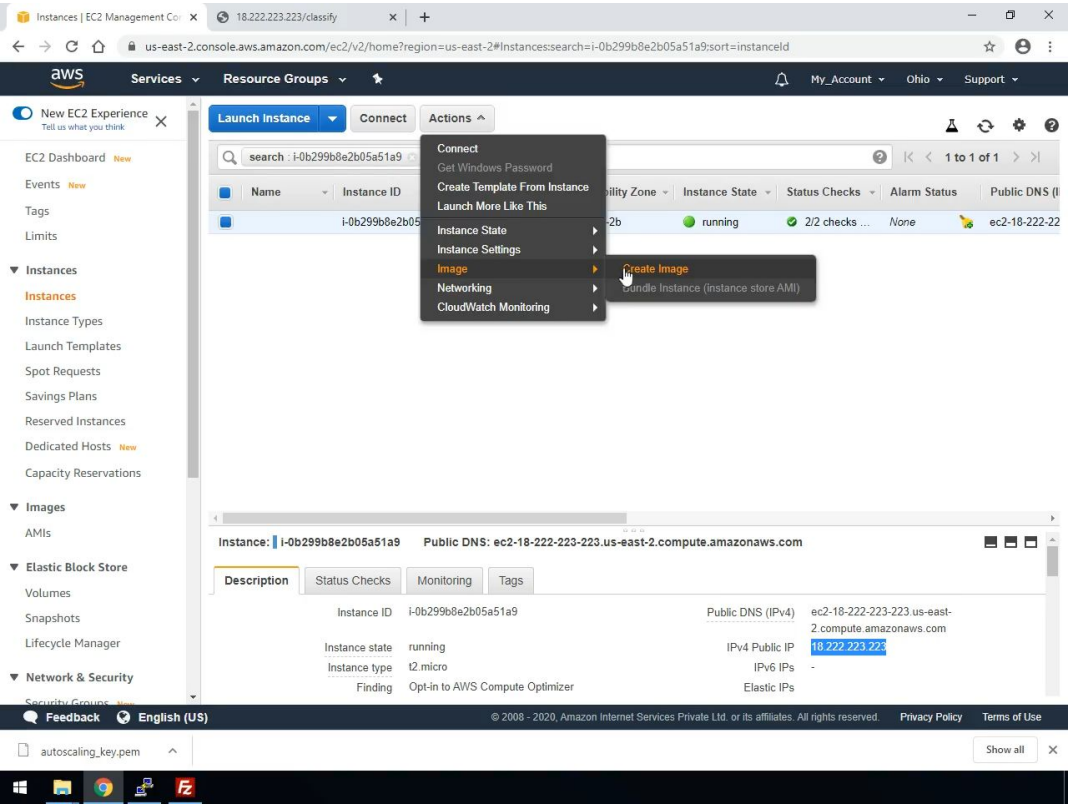
everything in the host that we installed will copy to an image

and we can replicate this AMI in auto-scaling group

▶ 16:20

so the exact copy of this image is use whenever a new instance is launched by auto-scaling group

▶ 16:42



▶ 17:06

Instances | EC2 Management Console | 18.222.223.223/classify

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:search=i-0b299b8e2b05a51a9:sort=instancetype

Services Resource Groups

New EC2 Experience

Launch Instance Connect Actions

search: i-0b299b8e2b05a51a9 Add filter

Create Image

Instance ID: i-0b299b8e2b05a51a9

Image name: autoscaling-demo-image

Image description: this is an image of our python demo application

No reboot: ☐

Instance Volumes

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/sda1	snap-0ed1b3d50e9f4ec5e	8	General Purpose	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Total size of EBS Volumes: 8 GiB
When you create an EBS image, an EBS snapshot will also be created for each of the above volumes.

Cancel Create Image

Instance state: running
Instance type: t2.micro
Finding: Opt-in to AWS Compute Optimizer

IPv4 Public IP: 18.222.223.223
IPv6 IPs: -
Elastic IPs: -

Feedback English (US)

autoscaling_key.pem Show all

17:30

Instances | EC2 Management Console | 18.222.223.223/classify

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:search=i-0b299b8e2b05a51a9:sort=instancetype

Services Resource Groups

New EC2 Experience

Launch Instance Connect Actions

search: i-0b299b8e2b05a51a9 Add filter

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
	i-0b299b8e2b05a51a9	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-222-223

Create Image

✓ Create Image request received.
[View pending image ami-0e8a219e99dea356f](#)

Any snapshots backing your new EBS image can be managed on the [snapshots screen](#) after successful image creation.

Close

Instance: i-0b299b8e2b05a51a9 Public DNS: ec2-18-222-223-223.us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID: i-0b299b8e2b05a51a9 Public DNS (IPv4): ec2-18-222-223-223.us-east-2.compute.amazonaws.com

Instance state: running IPv4 Public IP: 18.222.223.223

Instance type: t2.micro IPv6 IPs: -

Finding: Opt-in to AWS Compute Optimizer Elastic IPs: -

Feedback English (US)

autoscaling_key.pem Show all

17:34

AMIs | EC2 Management Console

18.222.223.223/classify

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#images:sort=name

Services

Resource Groups

My Account

Ohio

Support

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Images

Elastic Block Store

Network & Security

Launch

EC2 Image Builder

Actions

Owned by me

Filter by tags and attributes or search by keyword

Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date
	autoscaling-de...	ami-0e8a219e99dea358f	214856675350/...	214856675350	Private	pending	September 4, 20

Image: ami-0e8a219e99dea358f

Details

Permissions

Tags

AMI ID	ami-0e8a219e99dea358f	AMI Name	autoscaling-demo-image
Owner	214856675350	Source	214856675350/autoscaling-demo-image
Status	pending	State Reason	-
Creation date	September 4, 2020 at 7:15:51 PM UTC	Platform details	Linux/UNIX

Feedback

English (US)

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autoscaling_key.pem

Show all